

MSc Wildlife Management and Conservation

For students entering in 2006

Awarding Institution:

The University of Reading

Teaching Institution:

The University of Reading

Faculty of Science

Programme length: 12 months

Date of specification: August 2006

Programme Director: Dr G.J. Holloway

Board of Studies: Prof R.M. Sibly, Dr A. Callaghan (chair), Dr A.G. Stephens, Dr G.J. Holloway, Dr D. Savva, Prof P. John, Dr A. Culham, Dr C.V. Prescott

Accreditation:

Summary of programme aims

The purpose of the course is to prepare graduates from appropriate disciplines (e.g. biological, agricultural or environmental sciences) for employment in a variety of conservation or wildlife management related careers or to continue to PhD. The course provides both the theoretical and the practical experience required for the students to realise their potential and to discover where their talent lies in the multidisciplinary fields of conservation biology and wildlife management.

The expected outcomes are that students should acquire and demonstrate in the context of wildlife management and conservation:

- Appreciation of the philosophical context in which wildlife conservation is carried out both in the UK and overseas.
- Understanding of the essential principles of research design in conservation biology and wildlife management.
- Appreciation of a range of wildlife issues both in the UK and overseas.
- Competence in a range of research methods for data collection and detailed expertise in a subset relevant to the student's own research interests.
- Expertise in data management and analysis, and awareness of issues affecting data interpretation.
- Understanding of the legal and ethical issues in the conduct and dissemination of a research programme.
- Competence in research management and in written and oral skills for communicating research output wildlife conservation issues.
- Awareness of issues relevant to the pursuit of a career in wildlife conservation or management.
- Acquisition of a broad range of transferable employment-related skills.

Transferable skills

By the end of the course, the students will have developed the following transferable skills:

- Ability to use computers for statistics, data analysis and communication.
- Ability to use databases and other library resources.
- Writing skills: writing of articles for a scientific and a broader audience, abstraction of other's work from written and oral material, critically reviewing the work of peers.
- Ability to make oral presentations.
- Ability to design experiments under field conditions.
- Ability to identify a range of species in different taxonomic groups.

Programme content

		<i>Credits</i>	<i>Level</i>
AMMA13	<i>Quantitative Methods for the Life Sciences</i>	10	M
AMMA05	<i>Aquatic Resources</i>	10	M
AMMA09	<i>Vertebrate Pests and their Control</i>	10	M
AMMA10	<i>Population Dynamics</i>	10	M
AMMA11	<i>Conservation Genetics</i>	10	M
AMMA12	<i>Species and Habitat Conservation</i>	10	M
AMMB13	<i>Quantitative Methods for the Life Sciences</i>	10	M
AMMB12	<i>GIS for Wildlife Managers</i>	10	M
AMMB06	<i>Practical Wildlife Management</i>	10	M
AMMB08	<i>Mammal Conservation</i>	10	M
AMMB14	<i>Conservation Science Communication</i>	10	M
AMMB15	<i>Sustainable Agriculture</i>	10	M
AMMC01	<i>Research Project</i>	60	M

Part-time arrangements

There is a possibility to follow the course on a part-time basis over two years. The split of modules attended between the years has to be agreed by the course director in advance.

Progression requirements

Acceptance onto any module is conditional on the student having submitted all assessments in previous modules. The Research Project will normally be the last piece of work to be submitted for assessment (by dissertation)

Summary of teaching and assessment

Teaching is by a variety of methods, including lectures, small group seminars, discussion sessions, practicals, individual feedback on written work and one-to-one advice. Assessment procedures mirror the diversity of teaching methods and include scientific essays, oral and poster presentations, pamphlet production, essay based examinations and submission of project dissertation.

Marks should be interpreted within the following framework:

<u>Mark</u>	<u>Interpretation</u>
70% - 100%	Distinction
60% - 69.9%	Merit
50% - 59.9%	Pass
0% - 49.9%	Fail

The pass mark for individual modules is 50%. Students will be expected to have gained a pass mark for at least 80% of the total credits on offer to qualify for the award of MSc.

Admission requirements

Entrants to this programme are normally required to have obtained an honours degree in a suitable subject, for example biological science, geographical science, agricultural science or environmental science. Applicants should have gained or expect to gain a class mark of 2(1) or better (i.e. 60%+ [or international equivalent, e.g. B+ US letter grade]). Applicants holding 2(2)

degrees may also apply and each case will be considered on its own merits. The admission tutor for this course is Prof R.M. Sibly.

Support for students and their learning

University support for students and their learning falls into two categories. Learning support includes IT Services, which has several hundred computers and the University Library, which across its three sites holds over a million volumes, subscribes to around 4,000 current periodicals, has a range of electronic sources of information and houses the Student Access to Independent Learning (S@IL) computer-based teaching and learning facilities. There are language laboratory facilities both for those students studying on a language degree and for those taking modules offered by the Institution-wide Language Programme. Student guidance and welfare support is provided by Programme Directors, the Careers Advisory Service, the University's Special Needs Advisor, Study Advisors, Hall Wardens and the Students' Union.

Support for graduate students in the School of Animal and Microbial Sciences is similarly aimed at both learning and pastoral support. Learning support includes the use of a workroom dedicated to postgraduate students with networked PCs and printers, scanners, provision of photocopy cards and inter library loans (limited number), and ready access to members of staff who are all respected scholars in the fields taught. Pastoral support augments the University care system with each student being allocated a Personal Tutor within the School.

Career prospects

Students will have good prospects in careers that involve the management of wildlife or conservation. Career prospects in research related academic fields are also good. On average, 2 or 3 students go on to do a PhD each year and most of the remainder go on to secure a position in the conservation sector. See handbook for further details.

Opportunities for study abroad or for placements

A number of students carry out projects abroad every year.

Educational aims of the programme

The students are required to operate at a more advanced level than in an Honours degree, with emphasis on the integration of the various issues and factors influencing conservation biology.

Programme Outcomes

Knowledge and Understanding

A. Knowledge and understanding of:	Teaching/learning methods and strategies
<ol style="list-style-type: none">1. Understanding of a broad variety of methods in, and approaches to, wildlife management and conservation biology.2. Advanced understanding of the principal qualitative and quantitative research methods used in wildlife management.3. The use of computer software designed to analyse and present data, to prepare presentations, and to word process.4. Ethical, legal and economic issues as they relate to practical wildlife management.5. Theoretical issues as they relate to wildlife management research.6. Individual qualities required to carry out conservation work under field conditions.7. Approaches available to communicate concepts to a non-scientific audience both orally and written.	<p>1-5 are covered in lectures and seminars, and are further supported during the project work and thesis preparation.</p> <p>4 is covered by visiting speakers and members of staff.</p> <p>6 is covered by field trips and practical work under field conditions, including the project work.</p> <p>7 is supported by small group seminars, the production of a poster and pamphlet, and the preparation of material designed for publication in popular magazines.</p> <p><i>Assessment</i></p> <p>1,2,4 and 5 are assessed through continuous coursework and examinations.</p> <p>3 is assessed through continuous assessment and the project thesis.</p> <p>6 is assessed through field trips and the project thesis.</p> <p>7 is assessed through seminar presentations and coursework.</p>

Skills and other attributes

B. Intellectual skills – able to:

1. Understand the theoretical framework(s) in which research in wildlife management and conservation is carried out.
2. Give an account of the basics of research design, data capture, and analysis as they apply to wildlife management.
3. Understand the basis on which evidence based decisions are made in wildlife management.
4. Select from a number of possible methods the one most appropriate to a particular data set or a given research question.
5. Critically evaluate the design and conduct of conservation research.
6. Write well-structured and well-argued scientific essays.
7. Present convincing and well-structured arguments to non-scientific audiences.
8. Summarise complex arguments in the form of posters or pamphlets.

Teaching/learning methods and strategies

1-5 are developed in lectures and seminars. Coursework essays give the opportunity for formative feedback in support of 6 and 7. 7 is supported by feedback on small group oral presentations and feedback on written assignments designed for popular magazines. Feedback on poster presentations and pamphlet construction support 8.

Assessment

1-6 is assessed through coursework and examination.
6-8 is assessed through coursework
7 is also assessed during student run seminars

C. Practical skills – able to:

1. Perform advanced searches for information relevant to specific topics.
2. Choose and apply appropriate data preparation and analytical procedures.
3. Plan and carry out research into wildlife management and conservation issues.
4. Collect and manage data.
5. Write up empirical conservation research.
6. Carry out habitat management for wildlife conservation purposes
7. Carry out wildlife surveys.
8. Identify species from a variety of taxonomic groups.
9. Use items of equipment, such as radio-tracking kit, mist nets and small mammal traps.

Teaching/learning methods and strategies

1 is practiced throughout the course in conjunction with the preparation of coursework and the thesis.
2 and 4 are achieved through dedicated seminars and practicals, and during the preparation of the project thesis.
2-5 are undertaken during the project period and thesis preparation.
6-9 are practised during dedicated practical sessions.

Assessment

1 is assessed through the submission of coursework and the project thesis.
2 and 4 are assessed through coursework, examination and the project thesis.
2-5 are assessed through the project thesis.
6-9 are assessed during dedicated practical sessions.

D. Transferable skills – able to:

1. Communicate precisely or at length to scientific or non-scientific audiences.
2. Give oral presentations.
3. Work as part of a group.
4. Plan and implement a project.
5. Solve practical problems.
6. Use IT to write, to present information visually, to manage and analyse numeric data, to communicate, and to find information.
7. Manage time.
8. Condense complex orally delivered information.

Teaching/learning methods and strategies

Transferable skills are integrated in subject based teaching. 1 is learned, with formative feedback, through essays and other written assignments.

2 is included in seminars

3 forms a natural part of several of the modules.

4 and 5 are included in the project.

6 and 7 pervade all parts of the course.

8 is supported by formative feedback on research seminars written by the student.

Assessment

1,2,6 and 8 are formally assessed as coursework.

4 and 5 are assessed through the project thesis.

An adequate standard in 3 and 7 are required to pass the course.

Please note - This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. More detailed information on the learning outcomes, content and teaching, learning and assessment methods of each module can be found in the module description and in the programme handbook. The University reserves the right to modify this specification in unforeseen circumstances, or where the process of academic development and feedback from students, quality assurance processes or external sources, such as professional bodies, requires a change to be made. In such circumstances, a revised specification will be issued.